

Holds B. Sc. in Electrical Power & Machines Engineering and M. Sc. in Energy Engineering. Has over 6 years experience in electrical installations & power system analysis according to international standards "IEC, BS & IEE Regulation, DIN, NEC, IEEE/ANSI and national codes".

PERSONAL DATA

Nationality : Egyptian
Birth Date : 22/05/1987
Gender : Male
Marital Status : Single
Residence : Cairo

EDUCATION

- : B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2009
- : M. Sc. in Energy Engineering, Universitat Politècnica de Catalunya, Barcelona, Spain (2012-2013)
- : M. Sc. Materials for Energy Engineering, Institut polytechnique de Grenoble, Grenoble, France (2013-2014)

LANGUAGES

Arabic : Native Language
English : Fluent
German : Basics
French : Basics
Spanish : Basics

COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Access, Power Point), Internet
- : MATLAB, Primavera P5, MS Project
- : Programming Languages (C++)
- : Lighting design software (Dialux, Calculux, Relux)
- : Linux
- : AutoCAD, AutoCAD Electrical, Autodesk Revit MEP
- : Electrical Design Software as ETAP, EPLAN P8, ABB DocWin, Schneider Electric Ecodial, Easy Power, Siemens SIMARIS, Xspider (Moeller), SKM (PTW System Analysis), Electric Power Specsizer (Caterpillar), Power Suite (Cummins)
- : ANSYS CFX
- : FORTRAN and LaTeX

TRAINING COURSES AND CERTIFICATIONS

- : International Computer Driving License.
- : English (IELTS Band score 6.5).
- : French: A2 Certificate.
- : Grenoble Ecole de Management - Grenoble Graduate School of Business, Grenoble, France: Graduate Certificate of Energy Management, Major Subjects: Energy Management, Energy Economics, Design Management, Entrepreneurship, Innovation (2013-2014).
- : R&D Training courses and Plant Technical Visit, Maintenance feedback, EDF Électricité de France, Paris, France (2013).
- : CEA (Commissariat à l'énergie atomique et aux énergies alternatives), Cadarach, France: Energy Research: Intensive training course (2013).
- : Hands-on Training, Power Plant Full-scope simulator of ANAV NPPs, Tecnatom, Tarragona, Spain (2012).
- : Trainings at South Cairo Electricity Distribution Company (May/Jun. 2010):
 - Occupational Safety and Health course.
 - Electrical distribution course.
 - The New Engineers course.
- : Training courses at Industrial Training Council, Programmable Logic Controller (PLC) (Nov. 2009):
 - Introduction to PLC programming (SIEMENS S7-300) using FBD, LAD and STL.
 - Hardware Configuration.
 - Practical Applications.
- : Summer training courses at Arab Bureau for Design and Technical Consultations (from Aug. till Nov. 2008):
 - Lighting Systems Design.
 - Electrical Design and Installations, Electrical Testing and Inspection.
 - Fire Alarm Systems.
- : Summer training courses at Egyptian Electricity Production Company, Cairo South Power Station (2007):
 - Operation and Maintenance of Steam Power Plant / Gas Power Plant / Combined Cycle Power Plant.
 - Acquaintance with Boilers, Turbines, Generators, Circuit breakers, Transformers and Instruments.
 - Acquaintance with the Station Administration System.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Feb. 2014 till Nov. 2014
- Employer** : Forschungszentrum Jülich GmbH, Jülich, Germany
FZJ is one of the largest interdisciplinary research centres in Europe.
- Job title** : R&D Engineer
- Job Description** : As a member of the Institute of Energy Research (IEK), I was responsible for setting up test and validation phases for developed CFD-system code coupling for electric power plants design and modeling.

Dates : From Nov. 2010 till Aug. 2012

Employer : BAMAG Middle East & North Africa LLC
It's a leading German Engineering Company working internationally in the field of water and wastewater treatment plants and sludge treatment and incineration.

Job title : Electrical Design Engineer

Job Description :

- Design of Medium Voltage (22, 11 & 3.3KV) & Low Voltage (0.4KV) Networks for Water & Wastewater Treatment Plants and Large Water & Sewage Pumping Stations.
- Tender & detailed design documents preparation and cost estimates.
- Preparation of technical specifications and data sheets for electrical equipment: Generators, Power transformer, MV/LV switchgears, MCC, MV/LV motors, Auto-transformers, Soft-starters, power/control Cables, lighting system and Gen-set & UPS Systems.
- Preparation of load estimation, detailed load analysis, load flow studies and cables list.
- Electrical equipment & installations sizing studies according to IEC/NEC standards i.e. MV/LV switchgears, step down transformers 22-11/0.4KV, M.V/L.V Motors, Auto-transformers, Soft starters, M.V/L.V power cables, earthing, Lighting system, Diesel Gen-Set, UPS and cable tray sizing.
- Preparing single line diagrams, cable routing, and switchgear arrangement & Preparation of equipment layout in Power distribution building.
- Performing short-circuit study based on the IEC60909 for protection system studies includes selectivity and settings based on international standards.
- Motor control centres & motor starting simulation and harmonics analysis.
- Instrumentation devices selection, locate on the P&I Drawings, Installation and setting - Control Systems include PLC, SCADA and communications, junction boxes details, marshalling panels, analog and discrete modules.
- Design of indoor/outdoor lighting, fire alarm systems, Earthing & Equipotential system study, services calculations and layouts.
- Review of vendor drawings and documents, bid evaluation of electrical equipment and preparation of bill of quantities (BOQs).
- Preparation of Request for Quotations (FRQ's) & Request for Purchase (FRP's) for electrical equipment.
- Coordination with regulatory agencies and utilities involved for licenses and permits.
- Preparation of construction scope of work and provided the construction support during the construction.

Dates : From Sep. 2009 till Nov. 2010

Employer : Societe Egyptienne D'entreprises S.E.D.E. (The Egyptian Contracting Co.)

Project : Extension of Embaba Potable Water Treatment Plant (200,000 m³/day)

Job title : Electrical Engineer

- Job Description** :
- Follow up construction activities of Electrical Equipment installations such as LV/MV switchgear, Transformers, LV/MV Motors, PLC & SCADA Control system etc.
 - Prepare and activate design document handling procedures includes Electrical Shop drawings Using AutoCAD.
 - Follow up subcontractor Electrical works, installation and commissioning.
 - Design and execution of Lighting system and fire Alarm system works.

Projects:

- 10th of Ramadan Potable Water Treatment Projects:
 - Potable Water Treatment Plant PWTP (600,000 m³/day).
 - Booster Pumping Station.
 - Raw Water Pumping Station.
 - Extension and Rehabilitation of Old 10th of Ramadan P.W.T.P.
- Embaba Water Treatment Plant (200,000 m³/day).
- Al-Amriya Waste Water Treatment Plant, Alexandria.
- Dessouk Potable Water Treatment Plant (1,000 l/sec.).
- Extension of El-Sheikh Zayed Potable Water Treatment Plant.
- Ordu Potable Water Treatment Plant – Turkey (Tender-Proposal).
- Gabala Potable Water Treatment Plant – Azerbaijan (Tender-Proposal).
- Abu Qir Fertilizers Industrial Waste Water Treatment Plant (Tender-Proposal).